

**ABSTRACT****BLIND PROCESS AND RECEIVER TO DETERMINE SPACE-  
TIME PARAMETERS OF A PROPAGATION CHANNEL**

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Blind or partially blind process to determine characteristic space-time parameters of a propagation channel in a system comprising at least one reception sensor receiving a signal  $y(t)$ . It comprises at least one step in which the specular type structure of the channel is used and a step for  
10 the joint determination of parameters such as antenna vectors ( $\mathbf{a}$ ) and/or time vectors ( $\tau$ ) starting from second order statistics of the received signals.

Application for monitoring the spectrum of a propagation channel for  
15 positioning purposes starting from one or several HF stations or for standard communication links with equalization or positioning or spatial filtering.

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Single figure